cotc

JUN 1 8 2004 2

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| In re U.S. Patent No. 6,706,809 B2 |) | Serial No. 09/989,708 |
|------------------------------------|---|----------------------------------|
| Inventor(s): Kim TUTIN et al |) | Filed: November 21, 2001 |
| Issue Date: March 16, 2004 |) | Attorney Docket No. 005242.00032 |

For: RESIN/BINDER SYSTEM FOR PREPARATION OF LOW ODOR FIBERGLASS

PRODUCTS

REQUEST FOR CERTIFICATE OF CORRECTION

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 Certificate
JUN 2 4 2004

Sir:

î

of Correction

Pursuant to 35 U.S.C. § 254 and 37 C.F.R. § 1.322, this is a request for the issuance of a Certificate of Correction in the above-identified patent. Two (2) copies of PTO Form 1050 are appended. The complete Certificate of Correction involves one page.

The mistakes identified in the appended Form occurred through no fault of the Applicants, as clearly disclosed by the records of the application, which matured into this patent. Enclosed for your convenience are the relevant portions of the Amendments filed May 7, 2003 and September 8, 2003.

Issuance of the Certificate of Correction containing the corrections is respectfully requested. Since these changes are necessitated through no fault of the Applicants, no fee is believed to be associated with this request. Nonetheless, should the Patent and Trademark Office determine that a fee is required, please charge our Deposit Account No. 19-0733.

Respectfully submitted,

BANNER & WITCOFF, LTD.

Dated: June 18, 2004

William F. Rauchholz Registration No. 34,701

1001 G Street, N.W. (11th Fl.) Washington, D.C. 20001 (202) 824-3000

JUN 2 4 2004

UNITED STATES PATENT AND TRADEMARK OFFICE **CERTIFICATE OF CORRECTION**

PATENT NO.:

6,706,809 BV

DATED:

March 16, 2004

INVENTOR(S):

Kim TUTIN et al

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Column 15, Claim 1, Line 16:

Please replace "or" with --of--

In Column 15, Claim 1, Line 36:

Please replace "a" with --an infinitely water-soluble,--

In Column 16, Claim 25, Line 56:

Please replace "from" with --form--

Mailing Address of Sender:

Banner & Witcoff, Ltd.

1001 G Street, N.W.

11th Floor

U.S. PAT. NO 6,706,809 82

No. of add'l copies @ \$0.50 per page

JUN 2 4 2004



| Senal/Patent No. 3 (\$10) | y company | · · · · · · · · · · · · · · · · · · · | <u>) 32 Date</u> lốg | 5 7 60 | <u>3</u> |
|--|---|--|--|--|------------|
| Type Zuguna | a de la | Alvse Alvse Alvse Alvse | Mass Voi | | |
| The following has been | received in the U.S. Patent a | nd Trademark Office | | | 1 0.€ |
| Drawnos 8 4 D com | A CONTRACT OF THE PARTY OF THE | D Amerca | | kette: A Paper | (0 a |
| Declaration/Power of Atto | rigs mey: (a) Executed . (1) Unexec | LICPA: LI | or Edension of Time un PICE (E) w/Est of for Approval of Drawing | | |
| OSWPIORAS DE Presment Valencia (Carrollo Carrollo Carroll | lerences w/Fee | O Brei | Appeal & Fee Appeal & Fee Or Oral Hearing | MAYe 0 - 7e 20 | 8) 8) |
| Country **** | And a | L Issue Fee | Advance Patent C | STATE OF THE PARTY | |
| Wiforeign Priority Doc Application: DCIPA Parent Ser No. | ☐ Continuation ☐ Divis | Amendine Request is onal Transmits | ert under 37 CFR 1.312 ov Certificate of Corrects | AV FOR HAND SMARLA DE | |
| | BAW DP Spec Claims Cover Sheet Requirements as Corected Appin Papers as | Certificate Cireck # | of Mailing | w/Auth. to Charge Dep | osit Acct. |
| Request for Comercial | on Filing License | | | | A.Side |
| Response to Restriction/Ele | 2001 Requirement | | | | |

Appln. No.: 09/989,708 (Attorney Docket No. 005242.00032)

Amendment dated May 7, 2003

Reply to Office Action of February 7, 2003

after drying, storing the fiberglass base material for a time period of at least one month.

18. (Original) A method according to claim 17, further comprising: after storing, curing the phenol-formaldehyde binder on the fiberglass base material.

- 19. (Original) A method according to claim 18, further comprising: shaping the fiberglass base material to a desired final shape during curing.
- 20. (Original) A fiberglass product made by the method of claim 18.
- 21. (Original) A method according to claim 13, further comprising: after drying, storing the fiberglass base material for a time period of at least two months.
- 22. (Original) A method according to claim 21, further comprising: after storing, curing the phenol-formaldehyde binder on the fiberglass base material.
- 23. (Original) A method according to claim 22, further comprising: shaping the fiberglass base material to a desired final shape during curing.
- 24. (Original) A fiberglass product made by the method of claim 22.
- 25. (Currently Amended) A method comprising:

combining phenol, formaldehyde, water, and a base catalyst selected from the group consisting of oxides of alkali metals, hydroxides of alkali metals, oxides of alkaline earth metals, hydroxides of alkaline earth metals, tertiary amines, and mixtures thereof, to form a mixture, wherein the formaldehyde and phenol are combined in amounts such that a molar ratio of formaldehyde to phenol combined into the mixture is in a range of 1.8 to 4.5;

reacting the mixture to produce a reaction mixture containing at least a phenolformaldehyde reaction product and free formaldehyde, wherein the reaction mixture contains more than 2.5% free formaldehyde by weight, based on a total weight of the reaction mixture;



| DESIGN B&W Ref. 005 ☐ HAND CARRY Group/Section | 4、"我们都是我们的,""我们就把我们的,我们就是我们一起,我们们也没有的事情,"我们的",这个是这一些的话的。"我们","这 |
|--|---|
| Serial/Patient No. 09 989 708 | Athysec DMD/WEU/(OV) |
| inventor KIM TUXIN 127 a | Vicient Genala Pacific |
| TOBE VOSIN BIMER DUSTEM | to murina or Low |
| THE SEA OF SEA O | dwg & The |
| The following has been received in the U.S. Patent/and T | rademark Office on the date stamped hereon: |
| total pp Spec including : # of Claims | Sequence Listing: Diskette Paper |
| (# of independent claims); | [2] Amendment [2] Response : OA dtd [4] 6 0.3 |
| □ Drawings: □ Formal □ Informal | Petition for Extension of Time until |
| f of distinct sheets Figs | CPA RCE Wext of Time : OA dtd |
| ☐ Declaration/Power of Attorney: ☐ Executed ☐ Unexecuted | Request for Approval of Drawing Changes |
| ☐ Assignment w/PTO Cover Sheet ☐ IDS w/PTO 1449 ☐ References ☐ w/Fee | S Notice of Appeal & Fee 2 Reply Appeal & Fee |
| D Pretminary Amendment | |
| ☐ Priority Claim (Foreign or U.S. Provisional, B&W #28EP.F.0 #8 | |
| | Notice of Allowance dad |
| Country Appl. # Date | Amendment under 37 CFR 1.312 |
| ☐ ŵ/Foreign Priority Document(s) | Request for Certificate of Correction |
| Application: CIP Continuation Consess | ☐ Transmittal ☐ Fee Transmittal w/Auth, to Charge Deposit Acc |
| Parent Ser. No B&W# | Certificate of Mailing |
| U.S. Provisional pp Spec/Claims; Cover Sheet , | Check#for \$ |
| Response to Missing Parts/Requirements and Response to Notice to File Corrected Applin. Papers and | |
| I Request for Expedited Foreign Filing License | |
| ☐ Request for Corrected: ☐ Filing Receipt ☐ Assignmen | |
| Response to Restriction/Election Requirement | DAW Per So |

This Listing of Claims will replace all prior versions and listings of claims in the

application:

Listing of Claims:

1. (Currently Amended) A method comprising:

combining phenol, formaldehyde, water, and a base catalyst to form a mixture;

reacting the mixture to produce a reaction mixture containing at least a phenol-

formaldehyde reaction product and free formaldehyde, wherein the reaction mixture contains

more than 2.5% free formaldehyde by weight, based on a total weight of the reaction mixture;

combining a first formaldehyde scavenger and the reaction mixture, wherein the first

formaldehyde scavenger includes a member selected from the group consisting of melamine,

urea, dieyandiamide, guanidine, and ammonium hydroxide, and wherein a total amount of the

first formaldehyde scavenger and the reaction mixture are combined such that a molar ratio of 9

the free formaldehyde in the reaction mixture to the total amount of the first formaldehyde

scavenger is in a range of 0.1 to 30;

combining a second formaldehyde scavenger and the reaction mixture, wherein the

second formaldehyde scavenger is different from the first formaldehyde scavenger, wherein the

second formaldehyde scavenger includes a member selected from the group consisting of

melamine, urea, dicyandiamide, guanidine, and ammonium hydroxide, wherein a total amount of

the second formaldehyde scavenger and the reaction mixture are combined such that a molar

ratio of the total amount of the first formaldehyde scavenger to the total amount of the second

formaldehyde scavenger is in a range of 0.075 to 13.5, and wherein a molar ratio of the free

Page 2 of 11

formaldehyde in the reaction mixture to the total amount of the second formaldehyde scavenger is in a range of 0.1 to 20; and

reacting the reaction mixture, the first formaldehyde scavenger, and the second formaldehyde scavenger to form an infinitely water-soluble, modified phenol-formaldehyde resole resin, wherein the first and second formaldehyde scavengers react with at least some of the free formaldehyde in the reaction mixture, and wherein the modified phenol-formaldehyde resole resin has a free formaldehyde content of less than 3% by weight, based on a total weight of the modified phenol-formaldehyde resole resin.

- (Original) A method according to claim 1, wherein the free formaldehyde content 2. of the modified phenol-formaldehyde resole resin is less than 1.2% by weight, based on the total weight of the modified phenol-formaldehyde resole resin.
 - 3. (Original) A method according to claim 1, further comprising: adding an organic acid or a precursor thereof to the reaction mixture.
- 4. (Original) A method according to claim 1, wherein at least a portion of the first formaldehyde scavenger and at least a portion of the second formaldehyde scavenger are combined with the reaction mixture at the same time.
- 5. (Previously Amended) An infinitely water-soluble, modified phenolformaldehyde resole resin produced by the method of claim 1.
 - 6. (Original) A method according to claim 1, further comprising:

mixing the modified phenol-formaldehyde resole resin and a latent acid catalyst, wherein the latent acid catalyst includes at least one member selected from the group consisting of an ammonium salt of sulfuric acid, an ammonium salt of oxalic acid, an ammonium salt of